

Missouri Department of Natural Resources
Outreach and Assistance Center

Water & Wastewater Digest

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July/August 2003

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Water District Gets Federal Money

With the help of some federal funding, a portion of Laclede County's public water supply might set a precedent for how rural residents receive water and sewer services in the future.

The U.S. Department of Agriculture announced in July that it will provide more than \$6 million for development projects in rural Missouri. Laclede County will receive one of the largest portions of the funds, more than \$1.6 million in grants and loans, to construct a sanitary sewer collection and treatment system within the county's Public Water and Sewer District No. 3, according to U.S. Sen. Kit Bond's office.

This will mark the first time that any Laclede County rural water district has constructed sewer services. During the application process for the funding, District Board President Austin Fonda said there are many obstacles for rural communities seeking water and sewer services but this project could prove it is possible.

"I think we're the guinea pig here," said Fonda last November at an organizational meeting about rural sewer systems. "There are a few (rural sewer systems) that are doing things. There just haven't been a lot of people doing this because of expenses and things. It is something we need. We have to have good systems. You don't want runoff where your kids are playing."

Although securing funding might be a big step in providing sewer services to rural residents, Fonda said it will be some

time before all the customers in the No. 3 district are connected.

"Down the road, we'd like to have everyone connected, but it's taken 30-some years to get the water where we have it now. It's not going to be done in two or three years," Fonda said.

The funding for this innovative project will come in the form of a \$950,000 Water and Waste Disposal grant and a \$695,000 loan. The project will extend services to 383 homes, covering from the city limits to the Vista Heights area, then running north to Green Hills Road and south to the Falcon Road area.

The treatment facility is proposed to be constructed near the Hickory Hills subdivision, which already has two to three lagoons and land available for expansion. The city of Richland also will be getting some government dollars.

A \$67,000 Rural Business Enterprise grant will be used to renovate one of the city's buildings, installing a new heating and cooling system and replacing the roof. The improvements to the building will assist a local business, saving three jobs and creating three new positions.

Bond said the federal funding will provide needed services to Missouri's rural residents and will help small businesses, saving and creating jobs.

"For small, rural communities, funds from the USDA's rural development program can mean the difference between being able to provide critical services to residents or not," Bond said.

Draft DWSRF Priority Point Criteria Available for Public Comment

As part of its annual Drinking Water State Revolving Fund loan process, the Public Drinking Water Program is making available for public review and comment the draft of the priority point criteria for the FFY 2004 Drinking Water Revolving Loan program.

A public meeting will be held on July 18 at the Public Drinking Water Program, 101 Adams Street, Jefferson City. The deadline for submitting written comments is also July 18. Comments may be sent by mail, fax or e-mail. The Safe Drinking Water Commission intends to vote on the final criteria at its July 24 meeting.

For a copy of the draft priority point criteria or for more information, please contact the Public Drinking Water Program at (573) 751-5331.

Department Announces New Regional Office Boundaries

The Missouri Department of Natural Resources has announced new regional office boundaries. The new boundaries are necessary due to a reduction in the department's budget and the closing of the department's Jefferson City Regional Office on June 30.

The department now has five regional offices in Kansas City, St. Louis, Springfield, Macon and Poplar Bluff. The regional offices serve local citizens, businesses and other governmental offices and address environmental concerns.

A workgroup of division, program and regional office staff worked together to recommend how to best reorganize Jefferson City Regional Office's 17 counties into the five remaining regions. Consideration was given to location, key environmental issues, current workload,

major highways and watersheds in making these decisions. The group also carefully evaluated the number of regulated facilities in each county and the number of staff each region would need to perform the additional work.

The staff and equipment of the Jefferson City Regional Office are moving to new locations throughout Jefferson City. The department's Lake of the Ozarks satellite office will remain open.

The department will continue to address compliance, permitting and complaint investigations within the new regional office boundaries. The 17 counties the Jefferson City Regional Office served will now be addressed by the remaining regional offices:

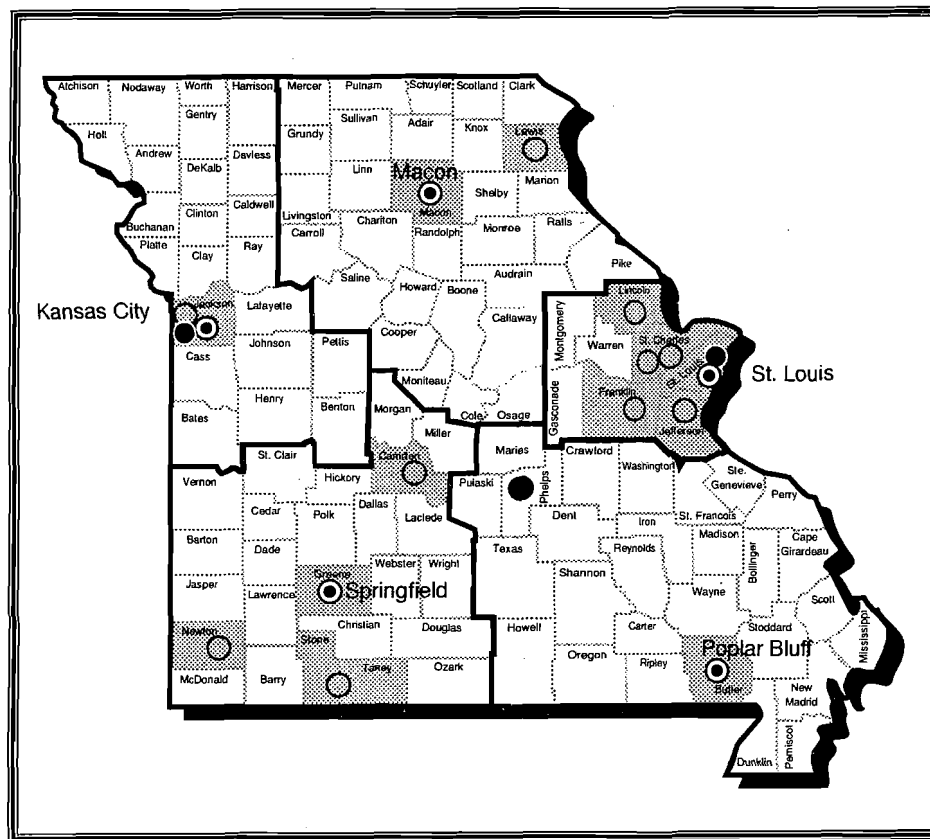
◆ Kansas City Regional Office -

Benton, Pettis

- ◆ Northeast Regional Office (Macon) - Boone, Callaway, Cooper, Cole, Moniteau and Osage
- ◆ St. Louis Regional Office - Gasconade, Montgomery
- ◆ Southeast Regional Office (Poplar Bluff) - Crawford, Maries, Pulaski and Phelps
- ◆ Southwest Regional Office (Springfield) - Camden, Miller and Morgan

The department's regional office map is at www.dnr.mo.gov/regions/deqregions.htm. For more information, contact the Department of Natural Resources at 1-800-361-4827 or (573) 751-1010. For news releases on the Web visit www.dnr.mo.gov/newsrel.

Missouri Department of Natural Resources - Departmental Offices



Kansas City Area

Kansas City Regional Office

500 NE Colbern Rd.
Lee's Summit, MO 64086-4710
(816) 622-7000
FAX: (816) 622-7044

Northeast Area

Northeast Regional Office

1709 Prospect Dr.
Macon, MO 63552-2602
(660) 385-2129
FAX: (660) 385-6398

St. Louis Area

St. Louis Regional Office

7545 S. Lindbergh, Ste 210
St. Louis, MO 63125
(314) 416-2960
FAX: (314) 416-2970

(continued on Page 3 ...)

Missouri Department of Natural Resources - Departmental Offices

[... continued from Page 2]

St. Louis Area

Franklin County Satellite Office

Meramec State Park
Hwy 185 S.
Sullivan, MO 63080
(573) 860-4308

Jefferson County Satellite Office

Eastern District Parks Office
Hwy 61
Festus, MO 63028
(636) 931-5204

Lincoln County Satellite Office

Cuivre River State Park
678 State Rt. 147
Troy, MO 63379
(636) 528-4779

Southeast Area

Southeast Regional Office

2155 North Westwood Boulevard
Poplar Bluff, MO 63901

(573) 840-9750
FAX: (573) 840-9754

Geological Survey and Resource Assessment Division

111 Fairgrounds Rd.
P.O. Box 250
Rolla, MO 65402
(573) 368-2100
FAX: (573) 368-2111

Southwest Area

Southwest Regional Office

2040 W. Woodland
Springfield, MO 65807-5912
(417) 891-4300
FAX: (417) 891-4399

Lake of the Ozarks Satellite Office

Camden County, 5568 A Hwy 54
Osage Beach, MO 65065
Mailing address:
2040 W. Woodland
Springfield, MO 65807-5912
(573) 348-2442

Neosho/Joplin Area Satellite Office

1900 S. 71 Highway
Neosho, MO 64850
(417) 455-5155
Mailing address: 2040 W. Woodland
Springfield, MO 65807-5912

Taney/Stone County Satellite Office

Table Rock State Park
5272 State Hwy 165
Branson, MO 65616
(417) 337-9732

For more information on the Department, visit www.dnr.mo.gov, call 1-800-361-4827 or write to P.O. Box 176, Jefferson City, MO 65102-0176.

Integrated Pest Management Methods of Mosquito Control for Wastewater Treatment Facility Operators

West Nile virus is spread by mosquitoes when they feed on the blood of infected birds. Infected mosquitoes then pass the disease to other birds, people or animals. Eliminating standing water or killing mosquito larvae is the most effective way to prevent problems with adult breeding mosquitoes. The U.S. Centers for Disease Control and Prevention and the American Mosquito Control Association recommend Integrated Pest Management Practices to reduce the risks of mosquito-borne diseases.

For All Systems

- ◆ General Housekeeping - Dispose of any litter that could hold water for a day or more. Trash receptacles should be water-tight and "varmint-

proof." Store equipment and supplies inside. Vegetation should not be allowed to grow over six inches.

- ◆ Hidden Water - Stumps, pipes, gutters, and equipment exposed to the environment should be filled, capped, plugged or covered. Sumps and drain traps are common breeding sites. They should be covered or treated with appropriate pesticides. Notch tree stumps so they drain completely. Machinery that can hold water should be stored out of the elements. Check protective equipment coverings for pool of standing water. Grade and drain depressions around buildings. However, draining areas that support aquatic vegetation (like

cattails) may require a permit from the U.S. Army Corps of Engineers. Contact your Army Corps of Engineers district office or the Missouri Department of Natural Resources for more information.

- ◆ Natural Alliance - Several types of birds, bats, dragonflies, frogs and toads can help keep the mosquito population in check. Encourage these natural allies to stay in the neighborhood by installing appropriate birdhouses, bat boxes and security lights. Contact the Missouri Department of Conservation for guidance in estab-



[continued on Page 6 ...]

Department of Natural Resources Operator Certification and Training Unit 2003 Examination Schedule

| Date | Session No. | Location | Filing Deadline |
|-------------|-------------|--|-----------------|
| August 5 | 20 | Northeast Regional Office, Macon | July 5 |
| | 21 | Kansas City Regional Office, Lee's Summit | |
| | 22 | Conference Center, 1738 E. Elm, Jefferson City | |
| September 2 | 23 | Conference Center, 1738 E. Elm, Jefferson City | August 2 |
| September 8 | 24 | Powder Valley Nature Center, St. Louis | August 8 |
| October 7 | 25 | Southeast Regional Office, Poplar Bluff | September 2 |
| | 26 | Southwest Regional Office, Springfield | |
| | 27 | Conference Center, 1738 E. Elm, Jefferson City | |
| November 4 | 28 | Northeast Regional Office, Macon | October 4 |
| | 29 | Kansas City Regional Office, Lee's Summit | |
| | 30 | Conference Center, 1738 E. Elm, Jefferson City | |
| December 1 | 31 | Powder Valley Nature Center, St. Louis | November 1 |
| December 2 | 32 | Conference Center, 1738 E. Elm, Jefferson City | November 2 |

Regular wastewater examinations are scheduled for 9 a.m., and the water supply examinations are scheduled for 1 p.m., **unless otherwise noted on the admission letter.**

Safe Drinking Water Commission Holds Public Hearing on Arsenic, Surface Water and Public Notice Rules

The Safe Drinking Water Commission held a public hearing on May 22 on the proposed adoption of final federal rules on arsenic, surface water treatment and public notification. The proposed rulemaking was published in the April 15 Missouri Register. No public comments were made at the hearing.

The proposed changes lower the maximum contaminant level for arsenic from 50 parts per billion to 10 parts per billion, adopt surface water treatment requirements for public water systems serving less than 10,000 people and replace existing public notice requirements with new

requirements from the Environmental Protection Agency.

The rulemaking proposes to adopt the Long-Term 1 Enhanced Surface Water Treatment Rule, which extends turbidity, disinfection and disinfection profiling requirements that are already in effect for larger surface water systems (serving a population of 10,000 or more) to surface water systems serving less than 10,000 people.

The new Public Notification Rule divides public notice requirements into three tiers based on the seriousness of the violation and potential adverse health effects. Tier 1 notice applies to violations and other situations with

short-term acute health effects. Tier 1 notice is required within 24 hours. Tier 2 applies to violations and situations with nonacute health effects; this notice is required within 30 days, except that the department can allow up to three months in some situations. Tier 3 public notice is required annually and applies primarily to monitoring violations and the issuance of variances or exemptions.

The Safe Drinking Water Commission will be voting on the rulemaking at its July 24 meeting. For more information about the rulemaking, contact the Public Drinking Water Program at (573) 751-5331.

EPA Semi-Annual Regulatory Agenda Available

Twice a year the U.S. Environmental Protection Agency (EPA) publishes a regulatory agenda to update the public about the status of major regulations and policies under development or recently completed. The spring 2003 regulatory agenda was published in the May 27 Federal Register and is available on line at <http://www.gpoaccess.gov/ua/browse0503.html> or by calling 1-800-490-9198. The following drinking water rules are under development or consideration by EPA:

Proposed Rules

- ◆ Long-Term 2 Surface Water

Treatment Rule - to have been proposed June 2003

- ◆ Stage 2 Disinfection By-Products - to be proposed July 2003
- ◆ Contaminant Candidate List #2 - preliminary list to have been available June 2003

Final Rules

- ◆ Ground Water Rule - final rule scheduled for December 2003
- ◆ Contaminant Candidate List #1 - final regulatory determination, scheduled for May 2003
- ◆ Six-Year Review of Existing NPDWR - notice of final decision, scheduled for May 2003

Long-Term Actions

- ◆ Radon - final action, December 2004.
- ◆ Aldicarb - proposed rule, August 2004.
- ◆ MTBE and corrections to NSDWR - proposed rule, date to be determined.
- ◆ Colitag Method - final action, date to be determined (proposed rule published in 2002).
- ◆ Total Coliform Rule Revisions and Distribution Rule - proposed rule, June 2006.
- ◆ Contaminant Candidate List #3 - preliminary list, January 2008.

Public Hearing on Change to Coliform Holding Time

The Safe Drinking Water Commission is holding a public hearing on July 24 on a proposed change to the total coliform sample holding time. The proposed amendment, which was published in the May 15 Missouri Register, changes the coliform sample holding

time from 48 hours to 30 hours. An information meeting on the proposed change will begin at 10 a.m. and will be followed by the public hearing. Anyone may comment at the hearing in support of or in opposition to the proposed change. Also, written comments on the

proposed change will be accepted through July 31.

The commission's regular meeting will begin following the public hearing.

For more information, please contact the Public Drinking Water Program at (573) 751-5331.

Department of Natural Resources Supports Marshfield in Effort to Improve Water Quality

The Missouri Department of Natural Resources recently announced that the city of Marshfield will receive an interim loan of \$3.65 million for drinking water system improvements. The city will use the proceeds to begin construction of a new groundwater well and the replacement of approximately 54,800 linear feet of waterline.



Funding for the loan comes from the State Revolving Fund, which is a combined effort between the Department of Natural Resources and the U.S. Environmental Protection Agency to provide cost-effective financing for drinking water and wastewater treatment and collection improvements. The interest rate on the loan will be approximately 50 percent below current market rates.

"This loan represents a savings of approximately \$1.15 million and certainly allows these environmental improvements to be made at an affordable level," said Steve Mahfood, director of the Department of Natural Resources.

The loan will be administered by the department's Water Pollution Control Program. For more information, contact John Fraga, Missouri Department of Natural Resources, Water Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or call 1-800-361-4827 or (573) 751-1192.

Integrated Pest Management Methods ...

(... continued from Page 3)

lishing and maintaining a healthy wildlife community.

- ◆ Monitor and Document - Perform and record weekly dipping for mosquito larvae. This simple process can save time and money by indicating if or when treatment is necessary. The Missouri Department of Natural Resources Environmental Assistance Center or the Missouri Department of Health and Senior Services can provide information for mosquito larvae monitoring.
- ◆ Proper Maintenance - Check, repair or replace broken machinery. Give particular care and attention to equipment that is designed to keep water moving. Facilities operating at peak efficiency will help control mosquito development.
- ◆ Permit Compliance - Review operating permits for terms and conditions before applying pesticides or other chemicals to the treatment system. Many Missouri operating permits require notifying the Department of Natural Resources up to 30 days in advance of application. Contact the Missouri Department of Natural Resources for more information.
- ◆ Pesticide Use - Only two types of pesticides are authorized for use in controlling mosquitoes at wastewater treatment facilities. Contact the Missouri Department of Agriculture for the brands that are specifically approved for use in sewage plants and systems.

Lagoon System

- ◆ Maintain Aeration - Lagoons are living biological systems that need adequate oxygen to function properly. Some lagoons use equipment to churn the water while others depend on the wind to mix in the required oxygen. Mechanical aeration equip-

ment should be kept in good working order. Excessive amounts of duckweed, (more than 25 percent of the lagoon's surface) can slow water movement to the point where mosquitoes can breed successfully. Contact the natural resources or agriculture departments to determine the best method of control. Trees near poorly situated lagoons may need to be thinned to allow wind to reach the water's surface and facilitate mixing. It may be possible to stock some lagoons with fish that prey on mosquitoes. Contact the Missouri Department of Conservation for appropriate species.

Oxidation Ditch

- ◆ A properly designed and well-functioning oxidation ditch should be capable of preventing the establishment of a mosquito population. However, "dead zones," or quiet waters, have been noticed in some mechanical plants that use surface aerators. Generally, diffusers or submerged aerators provide better agitation. Foam or sludge that collects in corners or bends should be removed, and the basin tested for mosquitoes before applying a chemical treatment. Proper maintenance of these types of facilities is crucial to their success. Repair or replace damaged or malfunctioning parts as soon as possible. Inspections should take place on a frequent basis.

Package Plant

- ◆ Allowing a package plant to remain idle for too long can provide a breeding ground for mosquitoes. Setting timers for agitation at least twice a day for at least two hours should inhibit mosquito growth. Peak flow basins should be capable of being completely drained when not in use. Proper maintenance of these

types of facilities is crucial to their success. Repair or replace damaged or malfunctioning parts as soon as possible. Inspections should take place on a frequent basis.

Primary & Secondary Clarifier

- ◆ A properly designed and well-functioning treatment cell should be capable of preventing the establishment of a mosquito population. However, dead zones have been noticed in some clarifiers. Foam or sludge that collects in corners or bends should be removed and clarifier tested for mosquitoes before applying a chemical treatment. Proper maintenance of these types of facilities is crucial to their success. Repair or replace damaged or malfunctioning parts as soon as possible. Inspections should take place on a frequent basis.

Treatment Wetland

- ◆ Wetlands must maintain adequate flow. Water that stands still for too long can result in undesirable odor, poor effluent quality, and provides a breeding ground for mosquitoes. Healthy, well-maintained wetlands will host a variety of beneficial insects that will help control mosquito larvae and adults. Regular monitoring for mosquito larvae is essential to determine if and when treatment is necessary. It may be possible to stock some wetlands with fish that prey on mosquitoes. Contact the Missouri Department of Conservation for appropriate species.

Trickling Filter

- ◆ Pools of standing water in filter media may indicate problems with a treatment facility. If the cause cannot be corrected within a reasonable time period, monitor the water for mosquito larvae and treat with pesticides only when necessary. Notify

(continued on Page 7 ...)

Integrated Pest Management Methods ...

(... continued from Page 6)

the Department of Natural Resources regional office before applying any pesticides. Proper maintenance of these types of facilities is crucial to their success. Repair or replace damaged or malfunctioning parts as soon as possible. Inspections should take place on a frequent basis.

Land Application

- ◆ Standing water in an application field indicates that the field's absorption may be exceeding its capacity. A site evaluation to recalculate the agronomic rate of application may be necessary. Monitor the water for mosquito larvae and treat with pesti-

cides only when necessary. Notify the Department of Natural Resources regional office before applying any pesticides. Contact the Natural Resources Conservation Service for a soil evaluation in the application field. If a facility is designed and permitted for overland flow, it may be necessary to grade areas to remove pooling. Proper maintenance of these types of facilities is crucial to their success. Repair or replace damaged or malfunctioning parts as soon as possible. Inspections should take place on a frequent basis.

Prevention is the simplest and most

effective way to combat the spread of the West Nile virus. The following Web addresses and contact numbers are useful resources and provide additional information about controlling the threat from mosquitoes. For more information please call the Department of Natural Resources at 1-800-361-4827 and ask for Vicky Kugler, or visit these Web addresses: <http://www.dhss.state.mo.us/WestNileVirus/WNVindex.htm>, or <http://www.epa.gov/pesticides/factsheets/skeeters.htm>.

Four Often-forgotten Steps When Applying for a Certification Examination

1. When applying for a water treatment or distribution exam, you need to have a high school diploma or a GED certificate. Wastewater exams do not require this for any level of certification.
2. Know in advance that you are eligible in actual (hands-on) total years experience and any equivalency years required before you apply. You must list all water, distribution and wastewater experiences. This applies to all certificates. If you do not know or understand, please contact this office, and we will help sort your experience. You need to list all your employer(s), with supervisor's name, so we may contact them in the event that you pass the exam.
3. You must list all related courses, multi-day courses or certificates, and any required transcript from any accredited college or university.
4. Most important is to sign the application and pay the required fee, and then have your employer reimburse you for the fee. This will get the process moving much faster than waiting for the "employer's office" to get permission to cut checks or possibly have the application get delayed. This money is NON-REFUNDABLE. If not address, any of these few things listed above will hamper your certification process.

This office can help you in advance, by going over your experience to see if you qualify.

Operators may contact us to get more details by calling 1-800-361-4827 and asking for assistance.

James A. de Chant
Certification/Training Specialist
Missouri Department of
Natural Resources
Outreach and Assistance Center
EAO/OpCert Unit
1659 East Elm St., P O Box 176
Jefferson City, MO 65102-0176
(573) 751-1602 Fax: (573) 751-0678
Internet mail: oac@dnr.state.mo.us



Laboratory Holidays

The state health laboratory will be closed on the following state holiday:

Sept. 1, 2003, Labor Day

Missouri Department of Natural Resources

Approved Training Courses

Please contact the course coordinator at the phone number listed below their name for more information

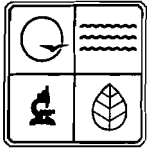
| <u>Course Title</u> <u>Course Number</u> | <u>Course Location</u> <u>Sponsored By</u> | <u>Course Coordinator</u> <u>Coord. Phone No.</u> | <u>First/Last Day</u> | <u>Number</u> <u>of Days</u> | <u>Renewal</u> <u>Credit Hours</u> | | | | |
|--|---|--|-----------------------|---------------------------------|---------------------------------------|---------------|-----------------|-------------|--|
| | | | | | <u>Drinking--</u> | <u>Dist--</u> | <u>WasteW--</u> | <u>CAFO</u> | |
| North Fork Reg. Watershed Conf 03-06-444 Various | Kirksville CCWWC | Liz Grove 573-672-3221 | 07/22/03 07/22/03 | 1 | 4.5 | 4.5 | 4.5 | 0.0 | |
| Advanced W/WW Math 03-03-339 Everett William | Jefferson City MWWC | Sandi Miller 573-761-0376 | 07/23/03 07/23/03 | 1 | 6.0 | 6.0 | 6.0 | 6.0 | |
| Chlorine Dioxide Seminar 03-01-407 Mark Klaus | Cameron MoDNR/KCRO | Mark Klaus 816-622-7042 | 07/23/03 07/23/03 | 1 | 6.0 | 2.0 | 1.0 | 0.0 | |
| Intermediate Emergency Generat 03-01-437 Paul Harris | Independance HPS | Bill Harris 816-373-4594 | 07/23/03 07/23/03 | 1 | 4.5 | 4.5 | 4.5 | 0.0 | |
| Hazwoper 24 Hour 03-01-414 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 07/28/03 07/30/03 | 3 | 24.0 | 24.0 | 24.0 | 24.0 | |
| Hazwoper 40 Hour 03-01-429 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 07/28/03 08/01/03 | 5 | 40.0 | 40.0 | 40.0 | 40.0 | |
| Treatment, Distribution & Secu 03-06-408 Tom O'Conner | Wright City MWWC | Sandi Miller 573-761-0376 | 07/29/03 07/29/03 | 1 | 6.0 | 6.0 | 2.0 | 0.0 | |
| Wastewater Process Control 03-02-478 Mike Hollis | Shelbina NRWA | Mike Hollis 573-657-5533 | 07/29/03 07/30/03 | 2 | 4.0 | 4.0 | 13.0 | 0.0 | |
| Electrical 03-04-214 Hans Newsom | West Plains MWWC | Sandi Miller 573-761-0376 | 07/30/03 08/06/03 | 2 | 13.0 | 13.0 | 13.0 | 13.0 | |
| The Tracker 03-04-522 Bill Moore | Ironton MWWC | Sandi Miller 573-761-0376 | 07/30/03 07/30/03 | 1 | 6.5 | 6.5 | 6.5 | 0.0 | |
| Basic Math 03-01-493 David Williams | Kansas City MoDNR/KCRO | David Williams 816-622-7044 | 07/31/03 07/31/03 | 1 | 6.0 | 6.0 | 6.0 | 6.0 | |
| Vacuum Sewer Systems 03-09-293 Kevin Scott | Rochester, IN Aircvac Inc. | Kevin Scott 574-223-3980 | 08/01/03 08/31/03 | 4 | 0.0 | 0.0 | 22.0 | 0.0 | |
| Confined Space 03-01-426 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 08/06/03 08/06/03 | 1 | 8.0 | 8.0 | 8.0 | 8.0 | |
| Road Map/Steps of Analysis 03-01-436 Steve McDowell | Clinton MWWC | Sandi Miller 573-761-0376 | 08/06/03 08/06/03 | 1 | 6.0 | 6.0 | 6.0 | 0.0 | |
| Treatment, Distribution & Secu 03-01-409 Tom O'Conner | Warrensburg MWWC | Sandi Miller 573-761-0376 | 08/07/03 08/07/03 | 1 | 6.0 | 6.0 | 2.0 | 0.0 | |
| Vulnerability Assessments 03-04-533 Randy Norden | Caruthersville MRWA | Randy Norden 573-657-5533 | 08/07/03 08/07/03 | 1 | 6.5 | 6.5 | 6.5 | 0.0 | |
| Basics of Industrial Electrici 03-01-389 Various | Kansas City NTTI | Marta Horton 303-957-4397 | 08/12/03 08/14/03 | 3 | 21.0 | 21.0 | 21.0 | 21.0 | |
| Security Issues/Small Water Sy 03-01-451 Lorene Lindsay | Kansas City MARC | John Staples 816-474-4240 | 08/12/03 08/12/03 | 1 | 6.5 | 6.5 | 6.5 | 0.0 | |
| Applied water/Wastewater Math 03-01-450 Lorene Lindsay | Kansas City MARC | John Staples 816-474-4240 | 08/13/03 08/13/03 | 1 | 6.5 | 6.5 | 6.5 | 0.0 | |
| Pumping 03-04-215 Hans Newsom | West Plains MWWC | Sandi Miller 573-761-0376 | 08/13/03 08/20/03 | 2 | 13.0 | 13.0 | 13.0 | 13.0 | |
| Basic Water & Wastewater Math 03-06-479 Mike Hollis | O'Fallon NRWA | Mike Hollis 573-657-5533 | 08/14/03 08/14/03 | 1 | 7.0 | 7.0 | 7.0 | 7.0 | |
| Drinking water Monitoring 03-01-534 Randy Norden | Tarkio MRWA | Randy Norden 573-657-5533 | 08/14/03 08/14/03 | 1 | 6.5 | 6.5 | 1.5 | 0.0 | |
| Smoke Testing For I & I 03-01-480 Mike Hollis | Tarkio NRWA | Mike Hollis 573-657-5533 | 08/19/03 08/19/03 | 1 | 0.0 | 0.0 | 6.0 | 0.0 | |
| Vulnerability Assessments 03-05-535 Randy Norden | Cassville MRWA | Randy Norden 573-657-5533 | 08/21/03 08/21/03 | 1 | 6.5 | 6.5 | 6.5 | 0.0 | |
| Wastewater Lagoon Class 03-01-481 Mike Hollis | Gilman City NRWA | Mike Hollis 573-657-5533 | 08/26/03 08/26/03 | 1 | 0.0 | 0.0 | 6.5 | 0.0 | |
| Wastewater Lagoon Class 03-02-482 Mike Hollis | Lancaster NRWA | Mike Hollis 573-657-5533 | 08/27/03 08/27/03 | 1 | 0.0 | 0.0 | 6.5 | 0.0 | |

Missouri Department of Natural Resources

Approved Training Courses

Please contact the course coordinator at the phone number listed below their name for more information

| <u>Course Title</u> <u>Course Number</u> | <u>Course Location</u> <u>Sponsored By</u> | <u>Course Coordinator</u> <u>Coord. Phone No.</u> | <u>First/Last Day</u> | | <u>Number</u> <u>of Days</u> | <u>Renewal</u> <u>Credit Hours</u> | | | |
|--|---|--|-----------------------|----------|---------------------------------|---------------------------------------|---------------|-----------------|-------------|
| | | | | | | <u>Drinking--</u> | <u>Dist--</u> | <u>WasteW--</u> | <u>CAFO</u> |
| Wastewater Treatment 03-04-216 Hans Newsom | West Plains MWWC | Sandi Miller 573-761-0376 | 08/27/03 | 10/01/03 | 5 | 0.0 | 0.0 | 26.0 | 0.0 |
| Hazwoper Refresher 03-01-421 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 08/28/03 | 08/28/03 | 1 | 8.0 | 8.0 | 8.0 | 8.0 |
| Vacuum Sewer Systems 03-09-294 Kevin Scott | Rochester, IN Aircac Inc. | Kevin Scott 574-223-3980 | 09/01/03 | 09/30/03 | 4 | 0.0 | 0.0 | 22.0 | 0.0 |
| Plant Manager Seminar 03-01-516 Various | Kansas City MWEA | Pam Schweitzer 636-561-9486 | 09/04/03 | 09/04/03 | 1 | 5.5 | 5.5 | 6.5 | 0.0 |
| Motor Starters, Contr Devices 03-06-051 Paul Tucker | Bridgeton Control Tech | Jaime McCorkell 314-739-6050 | 09/05/03 | 09/05/03 | 1 | 6.5 | 6.5 | 6.5 | 6.5 |
| Sludge Management Workshop 03-05-483 Mike Hollis | Cassville NRWA | Mike Hollis 573-657-5533 | 09/09/03 | 09/09/03 | 1 | 0.0 | 0.0 | 6.5 | 0.0 |
| Basic Water & Wastewater Math 03-01-484 Mike Hollis | Platte City NRWA | Mike Hollis 573-657-5533 | 09/11/03 | 09/11/03 | 1 | 7.0 | 7.0 | 7.0 | 7.0 |
| Electrical PM 03-06-055 Paul Tucker | Bridgeton Control Tech | Jaime McCorkell 314-739-6050 | 09/12/03 | 09/12/03 | 1 | 6.5 | 6.5 | 6.5 | 6.5 |
| Flagger Certification 03-01-435 Denise Watkins | Kansas City MARC | Denise Watkins 816-220-2423 | 09/12/03 | 09/12/03 | 1 | 5.5 | 5.5 | 5.5 | 0.0 |
| Flagger Certification Course 03-01-452 Denise Watkins | Kansas City MARC | John Staples 816-474-4240 | 09/12/03 | 09/12/03 | 1 | 5.5 | 5.5 | 5.5 | 0.0 |
| Fundamentals of Motor Repair 03-06-530 Dale Hamil | St Louis MAWC | Bob Fuerman 314-843-6133 | 09/12/03 | 09/12/03 | 1 | 6.5 | 6.5 | 6.5 | 6.5 |
| Water Reuse 03-01-468 Ken Thompson | Independence Mo Sec AWWA | Karen Kelly 816-325-7698 | 09/15/03 | 09/15/03 | 1 | 7.0 | 0.0 | 0.0 | 0.0 |
| Wastewater Process Control 03-04-485 Mike Hollis | Caruthersville NRWA | Mike Hollis 573-657-5533 | 09/16/03 | 09/17/03 | 2 | 6.5 | 4.0 | 13.0 | 0.0 |
| Environmental Mgmt. Institute 03-06-135 David Kindelspire | Farmington MoDNR/OAC-EAO | Ellen Harrel 573-526-6627 | 09/17/03 | 09/18/03 | 2 | 8.0 | 7.0 | 7.0 | 0.0 |
| Hazwoper Refresher 03-01-422 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 09/17/03 | 09/17/03 | 1 | 8.0 | 8.0 | 8.0 | 8.0 |
| Laboratory Training Seminar 03-06-512 Various | St Peters MWEA | Pam Schweitzer 636-561-9486 | 09/18/03 | 09/18/03 | 1 | 4.5 | 4.0 | 6.0 | 0.0 |
| Hazwoper 24 Hour 03-01-415 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 09/22/03 | 09/24/03 | 3 | 24.0 | 24.0 | 24.0 | 24.0 |
| Hazwoper 40 Hour 03-01-430 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 09/22/03 | 09/26/03 | 5 | 40.0 | 40.0 | 40.0 | 40.0 |
| Sludge Management Workshop 03-01-486 Mike Hollis | Savannah NRWA | Mike Hollis 573-657-5533 | 09/23/03 | 09/23/03 | 1 | 0.0 | 0.0 | 6.5 | 0.0 |
| Sludge Management Workshop 03-04-487 Mike Hollis | Poplar Bluff NRWA | Mike Hollis 573-657-5533 | 09/25/03 | 09/25/03 | 1 | 0.0 | 0.0 | 6.5 | 0.0 |
| Bloodborne Pathogens 03-01-418 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 09/30/03 | 09/30/03 | 1 | 4.0 | 4.0 | 4.0 | 0.0 |
| Confined Space 03-01-427 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 10/01/03 | 10/01/03 | 1 | 8.0 | 8.0 | 8.0 | 8.0 |
| Fall Water Class 03-05-513 Tim Campbell | Springfield Mo/SWRO | Tim Campbell 573-526-4222 | 10/01/03 | 12/03/03 | 9 | 45.0 | 34.0 | 21.0 | 0.0 |
| Vacuum Sewer Systems 03-09-295 Kevin Scott | Rochester, IN Aircac Inc. | Kevin Scott 574-223-3980 | 10/01/03 | 10/31/03 | 4 | 0.0 | 0.0 | 22.0 | 0.0 |
| Water Operator Training 03-06-523 Steve McDowell | Hillsboro MWWC | Sandi Miller 573-761-0376 | 10/01/03 | 10/01/03 | 1 | 5.0 | 5.0 | 3.5 | 0.0 |
| Hazwoper Refresher 03-01-423 Joe Lickteig | Blue Springs MSG | James Lauer 816-229-6866 | 10/08/03 | 10/08/03 | 1 | 8.0 | 8.0 | 8.0 | 8.0 |



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